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| Application/Control No. | Applicant(s)/Patent under Reexamination |  |  |  |  |  |  |  |  |
|-------------------------|---|--|--|--|--|--|--|--|--|
| 10/042,398              | ROH, JAE-WOO                            |  |  |  |  |  |  |  |  |
| Examiner                | Art Unit                                |  |  |  |  |  |  |  |  |
| ANH H. DO               | 2624                                    |  |  |  |  |  |  |  |  |

| <b>√</b> | Rejected |
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| =        | Allowed  |

| _ | (Through numeral)<br>Cancelled |
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| + | Restricted                     |

| N | N | Non-Elected  |
|---|---|--------------|
| - | ı | Interference |

| A | Appeal   |
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| Cl       | aim      | Date   |  |                 |               |                                      | Claim Date |            |          |          |                        |          |  | <b>—</b>   | Claim Date |  |          |                                |          |             |          |                 |             |         |         |         |         |        |  |
|----------|----------|--|--|-----------------|---------------|--------------------------------------|------------|------------|----------|----------|------------------------|----------|--|--|------------|--|----------|--------------------------------|----------|-------------|----------|-----------------|-------------|---------|---------|---------|---------|--------|--|
|          | Ĭ        | 7  | 7  |                 |               |                                      |            |            |          |          | $\dashv$               | <u> </u> | Γ  | THE PART OF THE PA |            |  |          |                                |          |             | $\top$   |                 |             |         |         |         |         |        |  |
| Final    | Original | 3/   |  |                 |               |                                      |            |            |          |          | Final                  | Original |  |  |            |  |          |                                |          | Final       | Original | ŗ               |             |         |         |         |         |        |  |
|          | ۔ ا      | )=<br>(Q   | ┢  | Н               | $\dashv$      | +                                    | +          | +          | +        | -        | <u> </u>               | 51       | $\vdash\vdash$                                   | +  | ┿          | $\vdash\vdash$                                   | +        | $\dashv$                       |          | <del></del> | 101      | Н               | +           | +       |         | +       | +       | +      | ╀  |
|          |          | 一  | <del>-</del>                                     | $\vdash$        | +             | $\dashv$                             | +          | +          | +        | -        | <u> </u>               | 52       | ╂╾┼  |  | +          | $\vdash$   | +        | ╫                              |          |             | 101      | $\vdash$        | +           | +       | +       | ┿       | ╫       | +      | ╁  |
|          | 2        | Н  | -  |                 |               | -                                    |            |            |          | -        |                        |          | ╁  |  | ┿          | ┢  |          | +                              |          |             |          | -               | -           | +       | +       | ┿       | ╫       | +      | ╁─┤  |
|          | 3        | ┨-}-   | ⊢  | $\vdash$        | -             | -                                    | -          | -          | -        | -        | ļ                      | 53       | ╌┼   |  |            | $\vdash$   |          | +                              |          |             | 103      |                 |             | - -     | +       | +       | ┰       | +      | ₩  |
|          | 4        | H  | ▙  | $\square$       | $\dashv$      | $\dashv$                             |            |            | -        | 4        | <u> </u>               | 54       | <del>                                     </del> | -  | -          | $\vdash \vdash$                                  |          | -                              |          |             | 104      | _               |             | -       | 4       | 4       | 4       | 4      | ₩  |
|          | (5)      | Ц  |  | $\sqcup$        | $\rightarrow$ | _                                    | 4          |            |          | _        |                        | 55       | $\sqcup$   | _  |            | Ш  | _        | $\bot$                         |          |             | 105      |                 | -           | 4       | 4       | 4       |         | 4_     | 4  |
|          | 6_       | 1  | <u> </u>   | Ш               |               | $\perp$                              |            | $\perp$    |          | _        |                        | 56       |  |  |            |  |          | Ш                              |          |             | 106      |                 |             | $\perp$ | $\perp$ | $\perp$ |         |        |  |
|          | 7        |  | L  |                 |               | L                                    |            | $\perp$    | ┸        |          |                        | 57       | Ш  | $\perp$  | $\perp$    | Ш  |          | $\perp$                        |          |             | 107      |                 |             |         |         |         | $\perp$ |        |  |
|          | 8        |  |  |                 |               |                                      |            |            |          | _        |                        | 58       |  |  |            |  |          |                                |          |             | 108      |                 | l_          |         | _l_     | $\perp$ |         |        |  |
|          | 9        |  |  |                 |               |                                      |            |            |          |          |                        | 59       |  |  |            |  |          |                                |          |             | 109      |                 |             |         |         | Т       |         |        |  |
|          | 10       |  |  |                 |               |                                      |            |            |          | 7::::    |                        | 60       |  |  |            |  |          | T                              |          |             | 110      |                 |             |         |         | $\top$  |         |        |  |
|          | 11       |  |  |                 |               |                                      | T          | $\neg$     |          | 7::::    |                        | 61       |  |  |            | П  |          | 1                              |          |             | 111      |                 |             |         |         |         |         |        |  |
|          | 12       | Т  |  | М               | $\neg$        | $\neg$                               | $\dashv$   | $\dashv$   | 十        | 1        |                        | 62       |  | $\dashv$   | $\top$     | $\Box$   | $\top$   | $\top$                         |          |             | 112      | H               | $\dashv$    | $\top$  | $\top$  | $\top$  | $\top$  | $\top$ | $\top$   |
|          | 13       |  | T  | $\square$       | $\top$        | $\dashv$                             | $\top$     | $\dashv$   | $\top$   | 1        |                        | 63       |  |  | 1          |  | _        | -                              |          |             | 113      | $\vdash$        | 一十          | -       | +       | +       | $\top$  | T      | T  |
|          | 14       | -  | <del>                                     </del> | $\vdash$        | +             | $\dashv$                             | +          | +          | +        | 1        |                        | 64       | $\vdash$   | $\dashv$   | +          |  | +        | + +                            |          |             | 114      | $\vdash$        | $\dashv$    | +       | +       | +       | +       | +      | +-   |
|          | 15       |  | -  | 1               |               |                                      | -+         | -          | +-       | -{:::::  |                        | 65       | ╁  |  |            |  | ╁        | + +                            |          |             | 115      | $\vdash$        |             | +       | +       | +       | +       | ╁      | +  |
| -        |          | ├  | ├  |                 |               | $\dashv$                             | -          | -          | - -      | -        |                        |          | $\vdash$   | $\dashv$   | +          | $\vdash$   | +        | +                              |          |             |          | $\vdash$        | +           | ╅       | ╁       |         |         | ╫      | +  |
| <u> </u> | 16       | -  | -  |                 | $\rightarrow$ | -                                    | +          | -          | +        | -        |                        | 66       | $\vdash$   | +  | +          | $\vdash$   | +        | +                              |          |             | 116      | $\vdash$        | $\dashv$    | +       | +       | +       | +       | ┿      | +  |
|          | 17       | <u> </u>   | <u> </u>   | $\square$       | $\dashv$      | -                                    | +          | +          | +        | 4::::    |                        | 67       | $\vdash$   |  |            | $\vdash$   |          | +                              | ::::     |             | 117      | $\vdash$        | $\dashv$    | +       | +       | +       | +       | +      | 1  |
| <u> </u> | 18       | <u> </u>   | Ļ  | $\sqcup$        | _             | _                                    | _          | $\perp$    | $\bot$   | _        |                        | 68       | $\sqcup$   | $\bot$   | —          | $\sqcup$   |          | $\bot$                         | :::::    |             | 118      |                 | _           | $\perp$ | 4       | 4       | _ _     |        | Щ  |
|          | 19       |  |  |                 | _             |                                      | _          |            |          |          |                        | 69       |  |  |            |  |          |                                |          |             | 119      |                 |             |         |         |         |         |        | $\perp$  |
|          | 20       |  |  |                 |               |                                      | $\perp$    | $\perp$    | $\bot$   |          |                        | 70       | Ш  |  |            | $\Box$   |          | $\perp$                        |          |             | 120      |                 |             | $\perp$ |         | $\perp$ |         |        |  |
| <u> </u> | 21       |  |  |                 |               |                                      |            |            |          |          |                        | 71       |  |  |            |  |          |                                |          |             | 121      |                 |             |         | $\perp$ |         |         |        | 1  |
|          | 22       |  |  |                 |               |                                      |            |            |          |          |                        | 72       |  |  |            |  |          |                                |          |             | 122      |                 | l           |         |         |         |         |        |  |
|          | 23       | Ī  |  |                 |               |                                      |            |            |          | 7::::    |                        | 73       |  |  |            |  |          |                                |          |             | 123      |                 |             |         |         |         |         |        |  |
|          | 24       |  |  | П               |               | T                                    |            |            |          | 7        |                        | 74       | П  |  | 7          |  |          |                                |          |             | 124      |                 |             |         | $\neg$  | T       |         | 1      |  |
|          | 25       |  |  |                 | $\neg$        |                                      |            |            |          | 7        |                        | 75       |  |  | 1          |  |          |                                |          |             | 125      |                 |             |         |         | $\top$  | $\top$  |        | $\Box$   |
|          | 26       |  |  | $\Box$          | _             | 1                                    | $\top$     | $\top$     | 1        | 1        |                        | .76      |  |  | +          |  |          |                                |          |             | 126      |                 |             | $\top$  |         | +       | 1       | 1-     | <del>                                     </del> |
|          | 27       |  |  | H               | 寸             | $\top$                               | $\top$     | $\dashv$   | +-       | -        |                        | 77       | 1-1  | _  |            |  |          | 1-1                            |          |             | 127      |                 | $\dashv$    | +       | +       | +       | +       | +-     | ${}^{+}$   |
|          | 28       |  |  | $\vdash$        | 十             | $\dashv$                             | $\dashv$   | $\dashv$   | +-       | -        |                        | 78       | $\vdash$   | +  | +-         | $\vdash$   | +        | 1                              |          |             | 128      | $\vdash$        | $\dashv$    | +       | +       | +       | +       | +      | $\vdash$   |
| -        | 29       | -  | -  | $\vdash$        | +             | $\dashv$                             | ╅          | -          | +        | -        |                        | 79       | $\vdash$   | $\dashv$   | +          | $\vdash$   | +        | +                              |          |             | 129      | $\vdash$        | -           | +       | ╫       | +       | +       | +      | +  |
|          | 30       |  |  | -               | <del> -</del> | -                                    | +          | $\dashv$   | +        | -        |                        |          | $\vdash$   | $\dashv$   | +          | $\vdash$   | +        | ╁                              | :::::    |             |          |                 |             | +       | +       | ╬       | ╫       | +-     | +  |
|          |          |  | _  |                 | -             |                                      | +          | $\dashv$   |          | -        |                        | 80       | $\vdash$   | _  | ┿          | ┵  | -        | ┵                              | :::::    |             | 130      |                 |             | 4       | +       |         | - -     | -      | +  |
|          | 31       | _  |  | $\vdash$        | -             |                                      | +          | _          |          | -        |                        | 81       | $\vdash \vdash$                                  |  | 4          | ⊢  |          | +                              |          |             | 131      | $\vdash$        | -           | - -     | - -     | 4-      |         | -      | ┵  |
| <u> </u> | 32       | <u> </u>   | <u> </u>   | $\sqcup$        | -             | -                                    | -          | -          |          | -        |                        | 82       | $\vdash \vdash$                                  | _  | ┥—         | $\vdash$   | -        | 11                             | [        |             | 132      |                 | _           | 4       | 4       | -       | -       | ┥—     | 4  |
|          | 33       | <u> </u>   | <u> </u>   | ┝╌┤             | -             | _                                    | $\dashv$   | $\dashv$   | -        | -        |                        | 83       | ⊢  |  | -          | $\vdash$   | <u> </u> | ┯                              |          |             | 133      | $\sqcup$        | -           | $\bot$  | 4       | _ _     | - -     | -      | 4_   |
| <u> </u> | 34       |  | <u> </u>   | Щ               | $\dashv$      | _                                    | 4          | _          |          | 4        |                        | 84       | $\sqcup$   | _ _  |            | $\sqcup \bot$                                    | _ _      | 44                             | _ ::::   |             | 134      | <u> </u>        | _           |         | _       |         | $\bot$  | 1_     | 1  |
|          | 35       |  |  | Ш               |               | $\perp$                              |            |            |          | _        |                        | 85       | $\sqcup$   | $\perp$  | $\perp$    | $\sqcup$   |          | $oldsymbol{oldsymbol{\sqcup}}$ | ::::     |             | 135      | Ш               | ļ_          | $\perp$ | $\bot$  |         |         | _      | 1  |
| <u> </u> | 36       | _  | _  | Ш               |               | $\perp \!\! \! \! \! \! \! \! \perp$ |            |            |          |          |                        | 86       | Ш  | ot   |            | Ш  |          |                                |          |             | 136      |                 |             |         | 上       |         |         |        |  |
|          | 37       |  | L  | Ш               |               |                                      |            |            | $\perp$  |          |                        | 87       |  |  |            |  |          |                                |          |             | 137      |                 | $\Box \Box$ |         |         |         |         |        |  |
|          | 38       |  |  |                 |               | $\prod$                              |            |            |          | ]        |                        | 88       |  |  |            |  |          |                                |          |             | 138      |                 |             | J       |         |         |         | Γ      |  |
|          | 39       |  |  |                 |               | $_{	extsf{T}}$                       |            |            |          |          |                        | 89       |  |  |            |  |          |                                |          |             | 139      |                 | 丁           | T       | T       |         | $\top$  |        |  |
|          | 40       |  |  |                 |               | $\top$                               | 丁          | $\uparrow$ | $\top$   |          |                        | 90       |  |  | 1          |  |          | $\top$                         |          |             | 140      |                 | 1           | $\top$  | $\top$  | $\top$  | $\top$  | Т      |  |
|          | 41       |  |  | $\Box$          | $\neg$        | 十                                    | 十          | 十          | 十        | 1        |                        | 91       |  | 1  | 1          |  |          | 1 1                            | 7        |             | 141      | $\Box$          | $\dashv$    | $\top$  | 十       | $\top$  | $\top$  | $\top$ |  |
|          | 42       |  |  | $\Box$          | 十             | 十                                    | $\top$     | $\dashv$   | 十        | 1        | Н                      | 92       | $\vdash$   | $\top$   | +-         |  | $\dashv$ | 1 1                            | $\dashv$ |             | 142      | $\vdash$        | $\dashv$    | $\top$  | $\top$  | +       | +       | T      | $\forall$  |
|          | 43       | <del>                                     </del> |  | 1               | $\dashv$      | +                                    | $\dashv$   | +          | $\dashv$ | 1        |                        | 93       | $\vdash$   | 十  | +          | $\vdash$   | $\dashv$ | 11                             |          |             | 143      | $\vdash$        | $\dashv$    | +       | +       | +       | +       | T      | $\top$   |
|          | 44       | $\vdash$   | $\vdash$   | $\vdash$        | $\dashv$      | +                                    | +          |            | +-       | <b>-</b> | H                      | 94       | $\vdash$   | +  | +          | <del>                                     </del> | +        | + +                            |          |             | 144      | $\vdash$        | $\dashv$    | +       | +       | +       | +       | +      | $\vdash$   |
|          | 45       | $\vdash$   | $\vdash$   | $\vdash$        | $\dashv$      | +                                    | +          | +          | +-       | -        | $\vdash \vdash$        | 95       | $\vdash \vdash$                                  | +  | +          | <del>                                     </del> | +        | ++                             |          |             | 145      | $\vdash$        | $\dashv$    | +       | +       | +       | +       | +      | +  |
|          | 46       | <del>                                     </del> | $\vdash$   | $\vdash \vdash$ | $\dashv$      | +                                    | +          | +          |          | -        |                        |          | $\vdash \vdash$                                  | +  | +          | $\vdash$   | $\dashv$ | +                              |          |             |          |                 | +           | +       | +-      | +       | +-      | +      | -  |
|          |          | _  | $\vdash$   | $\vdash \vdash$ | $\dashv$      | +                                    | +          | +          | -        | -        |                        | 96       | $\vdash \vdash$                                  | $\dashv$   | +-         | $\vdash \vdash$                                  |          | +                              |          |             | 146      |                 | +           | +       | +       | - -     | +       | +      | $\vdash$   |
| <u> </u> | 47       | <u> </u>   | <del> </del>                                     | $\vdash \vdash$ | +             | +                                    | +          | +          | +        | - ::::   | $\vdash\vdash\vdash$   | 97       | $\vdash \vdash$                                  |  |            |  | +        | +                              |          |             | 147      | $\vdash \vdash$ | _           | +       | +       | +       | +       | +      | +  |
| <b> </b> | 48       |  | <u> </u>   | $\sqcup$        | _             | +                                    | +          | +          | +        | 4        | $\vdash \vdash \vdash$ | 98       | $\vdash \vdash$                                  | +  | +-         | ┝┼   | +        | <del>  </del>                  | :::::    |             | 148      | $\sqcup$        | -           | +       | 4       | 4       | +       | +      | $\sqcup$   |
| <u> </u> | 49       | <u> </u>   | <u> </u>   |                 | _             |                                      | $\bot$     | 4          |          | 4        | $\Box$                 | 99       | $\sqcup$   | $\bot$   | $\bot$     | $\sqcup$   | $\bot$   | $\sqcup$                       | _        |             | 149      | $\Box$          | $\bot$      | $\perp$ | $\perp$ |         | $\bot$  | ╀      | $oxed{oxed}$                                     |
|          | 50       |  |  | ļ               |               | - }                                  | 1          |            | -        |          |                        | 100      |  | - 1  | 1          | ıl   |          | 1 1                            |          |             | 150      |                 | - 1         | -1      | - 1     | - 1     |         |        |  |